

**Synonym**

FGF23, HYPF, FGF-23, ADHR, HPDR2

**Source**

Human FGF-23 (R179Q), His Tag (FG3-H52H3) is expressed from human 293 cells (HEK293). It contains AA Tyr 25 - Ile 251 (Accession # [Q9GZV9-1](#) (R179Q)).

**Molecular Characterization**[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 27.3 kDa. The protein migrates as 30-32 kDa and 33-35 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 20 mM MOPS, 150 mM NaCl, pH7.4 with trehalose as protectant.  
Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

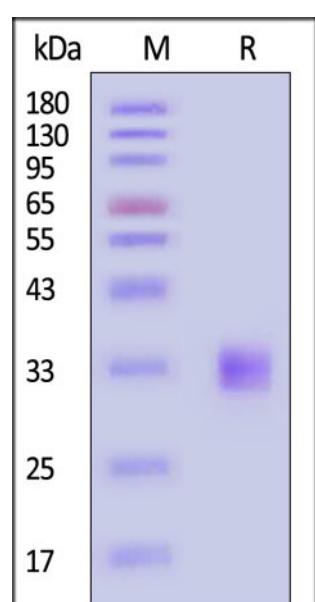
**Please avoid repeated freeze-thaw cycles.**

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**ACRO Quality Management System**

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

**SDS-PAGE**

Human FGF-23 (R179Q), His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Background

Fibroblast growth factor 23 (FGF23) is an endocrine member of the family of FGFs and mainly produced in the bone and, upon secretion, forms a complex with a FGF receptor and coreceptor  $\alpha$ Klotho. FGF23 can exert several endocrine functions, such as acting as a hormone on the kidney, stimulating phosphate excretion and suppressing formation of 1,25(OH)2D3, active vitamin D. Moreover, it has paracrine activities on several cell types, including neutrophils and hepatocytes. FGF23 and phosphate have been revealed to be factors relevant in cancer. FGF23 is particularly significant for those forms of cancer primarily affecting bone (e.g., multiple myeloma) or characterized by bone metastasis.

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